

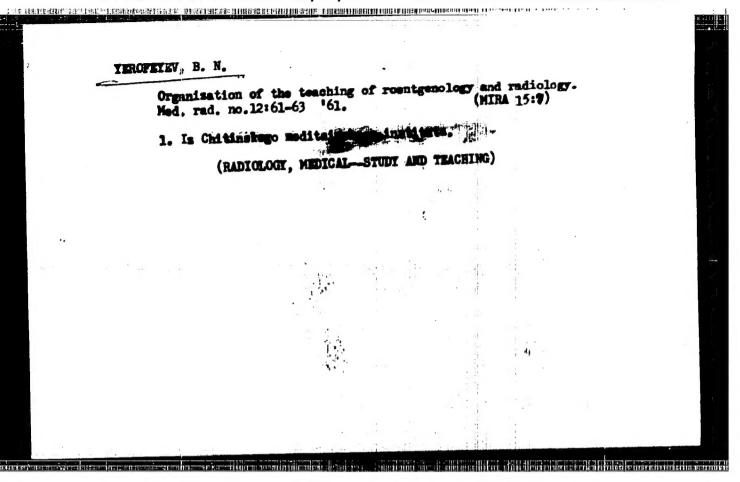
YMROFEYEV, B.K. (Chita, Thabarovskaya ul., d.2-A, kv.24)

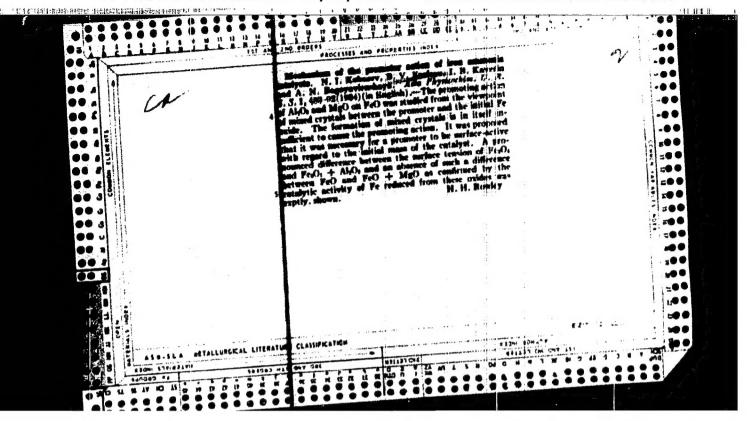
Tomographic examination in the diagnosis of osteomyelitis. Yest rent.

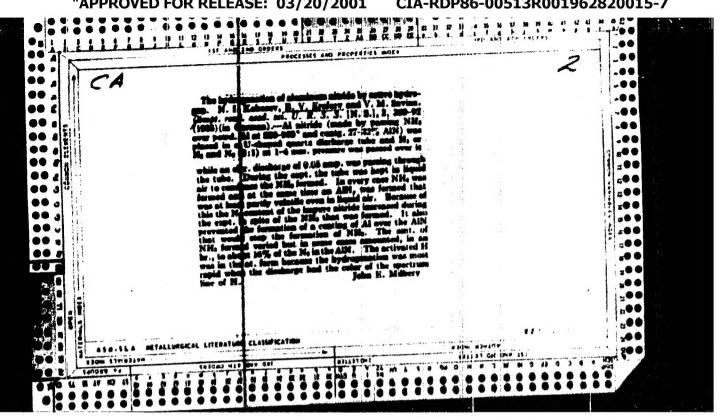
1 rad. 34 no.4:37-39 J1-4g '59. (MIRA 12:12)

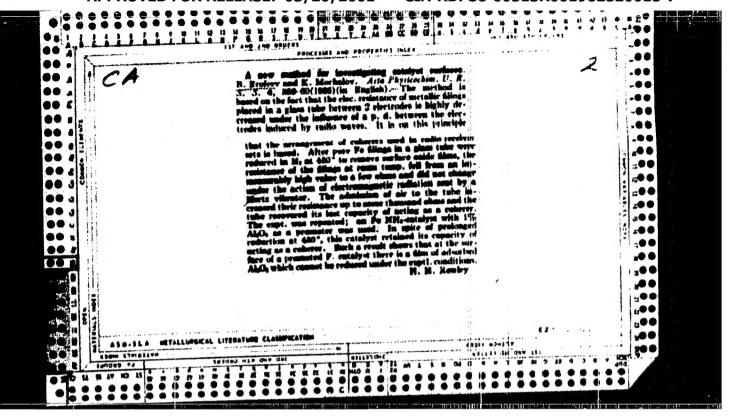
1. Is kafedry radiologii i rentgenologii (sav. - prof. P.D. Yal'tsev [deceased] i kafedry obshchey i gospital'noy khirurgii sanitarno-gigi-yenicheskogo fakul'teta (nauchnyy rukovoditel' - prof. P.I. Sapozhkov)
I Noskovskogo ordena Lenina meditsinskogo instituta imeni I.M. Sechenova.
(OSTROMYELITIS radiography)

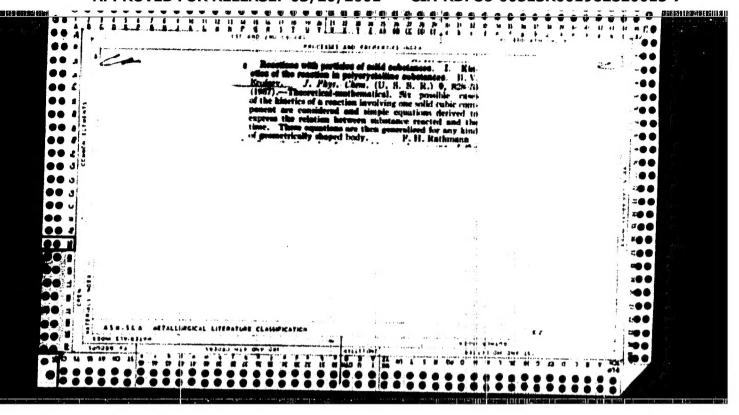
APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R001962820015-7"



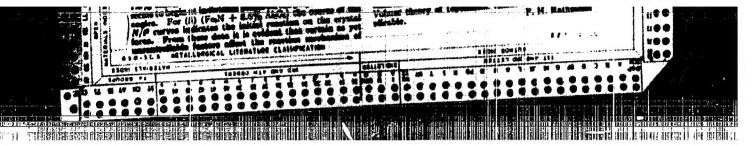


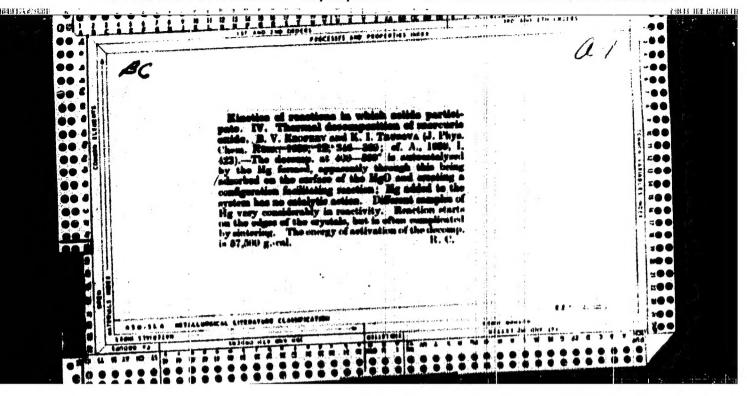


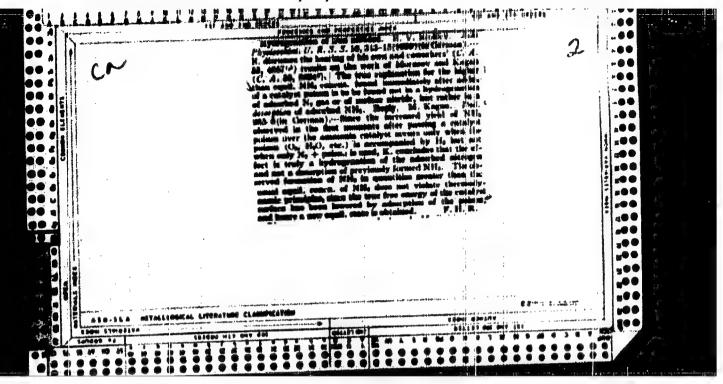












YEROFEYEV, B. V.

\*On the Kinetic and Catalytic Reduction of Carbon Monoxide to a Carbohydrate by the use of Hydrogen over a Cobalt-Thorium Catalyst.\* Acta Phys Vol. XIII No. 1, 1940, Chem inst. White Russian Acad. of Sci. Minsk.

YRREFEYEV, B.V.

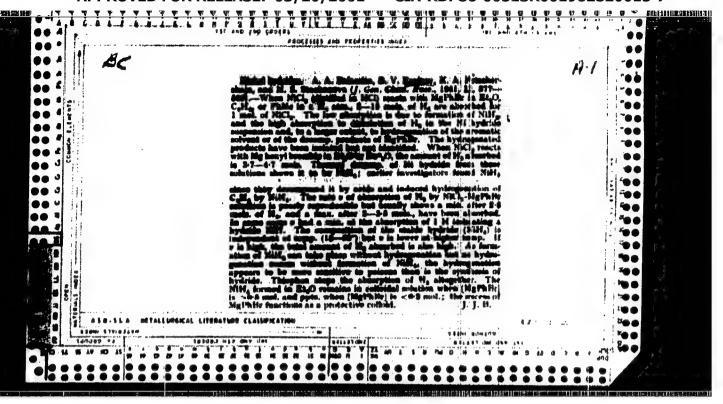
ussr

"Some Problems of Topokinetics."

Zhur. Faz. Mhim., Vol. 14, No. 9-10-, 1940.

秋· 所名公司名称对目台中国经常不同的任务。 化基础 计用度数 可用度报 机间间间隔 2018—16用的时间间间间 2018—16用的时间间

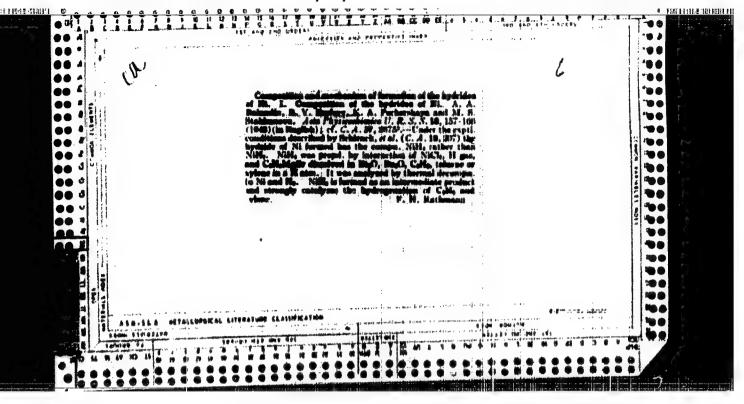
Oct 22 1951

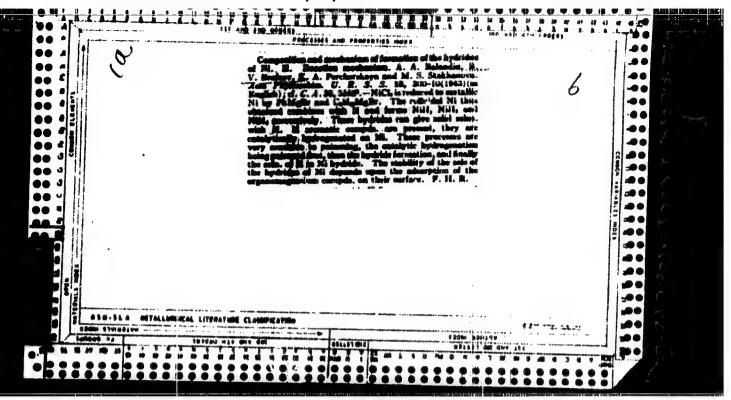


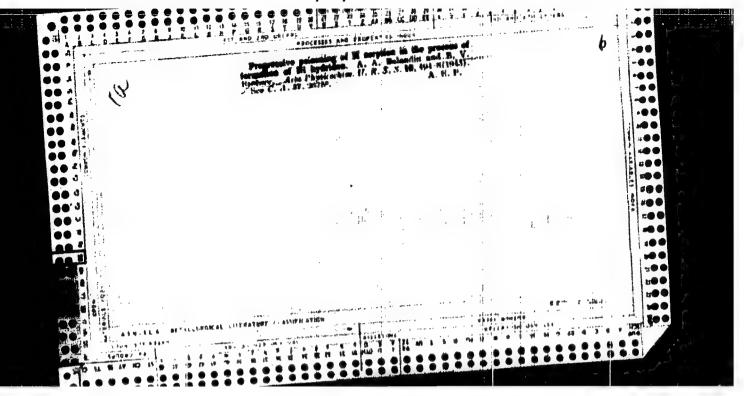
EROFEEN, B. V.

"Topochemical factors in the formation of the hydrides of nickel." Balandin, A. A., and Erofeew, B. V. (p. 170)

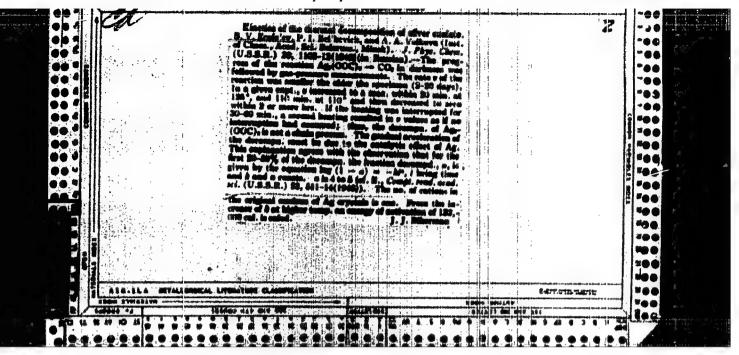
SO: Journal of General Chemistry (Zhurnal Obshchei Khimii) 1942, Vol 12, No 3-4.

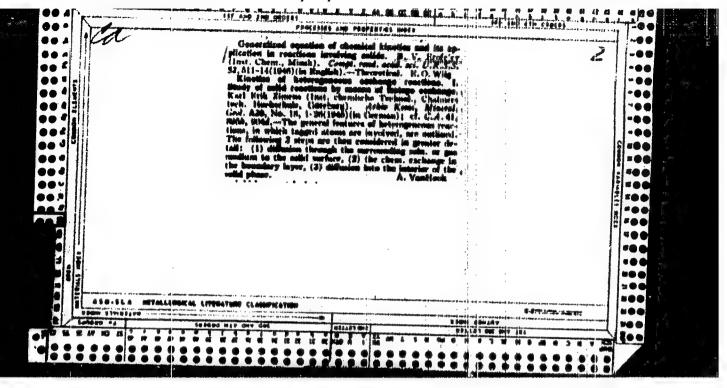






"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R001962820015-7





EROFEEV. B.V.

25383. EROFEEV. B.V.
O Reaktsii E. I. Orlova. (Reaktsiys sintozavysshikh uglawodorodov iz okisi uglaroda i vodoroda). Uspekhi khimii, 1948. Vyp. 3, s. 370-71. - Bibliogr: S. 371

SO: Lotopis' Zhurnal Statey, No. 30, Mondow, 1948

A DECEMBER CONTROL OF THE PROPERTY OF A DESCRIPTION OF THE PROPERTY OF THE PRO ishofayay, 3. 7. Bel'Kevich, P. I., Volkova, A. A., and Yerofeyev, B. V. "The kinetics of the thermal disintegration of stable solutions of silver oxelate and sodium oxalate", Izvestiya Akad. nauk BSSR, 1948, No. 6, p. 145-59. SO: U-3261, 10 April 55, (Leto is 'Zhurmal 'nykh Statey, No. 11, 1949.

YEROFEYEV, B. V.

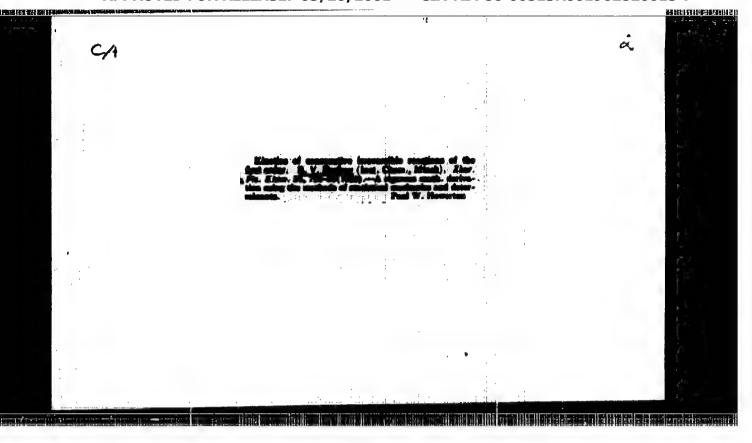
YEROFEYEV, B. V. "Successes in investigations of chemical kinetics and catalysis during 30 years of Soviet power", In the collection: Materialy noyabr'skoy sessii Akad. nauk BSSR, 1947, Minak, 1949, p. 107-15.

SO: U-4393, 19 August 53, (Letopis 'Zhurnal 'nykh Statey', No. 22, 1949).

YEROFEYEV, Boris Vasil'yevich

"Successes in the Field of Topokinetics," Izvestiya Akademii Mauk Belorusskoy SSR, 1950, Nov 4

SO: Bol'shaya Sovetskaya Entsiklopediya, 2nd edition, Vol XV, Moscow, 1949



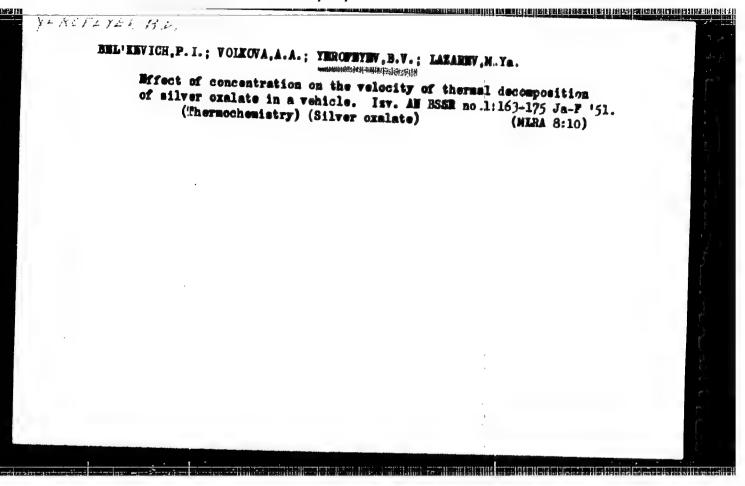
EROFEEV. B. V.

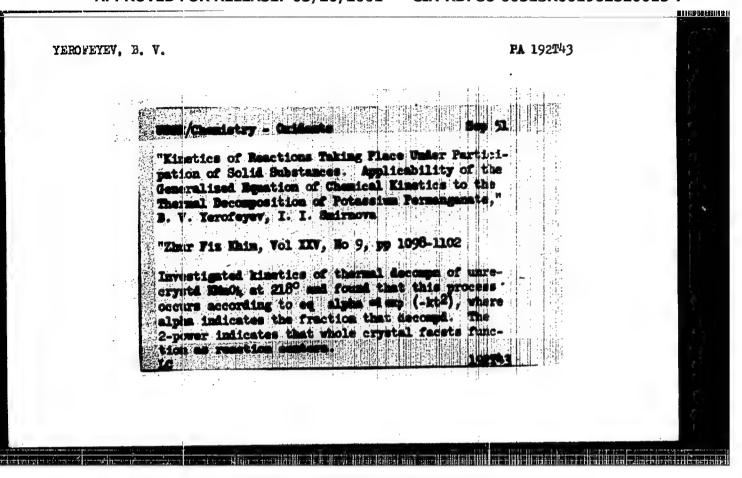
Kinetics of transformations of polymorphous modifications of ammonium nitrate.

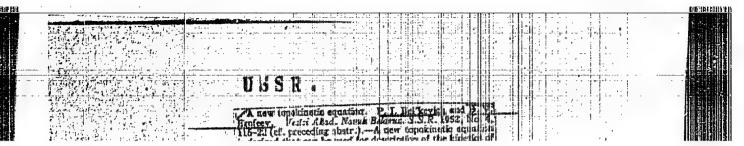
I. General character of the kinetics of transformation of the modification IV. into the modification III. B. V. Erofeev and N. I. Mitshevich. Page 1235.

Academy of Sci. Hellor. SSR Inst. of Chemistry Minak March 6, 1950.

SO: Journal of Physical Chemistry, Vol. 74, No. 10, October 1950





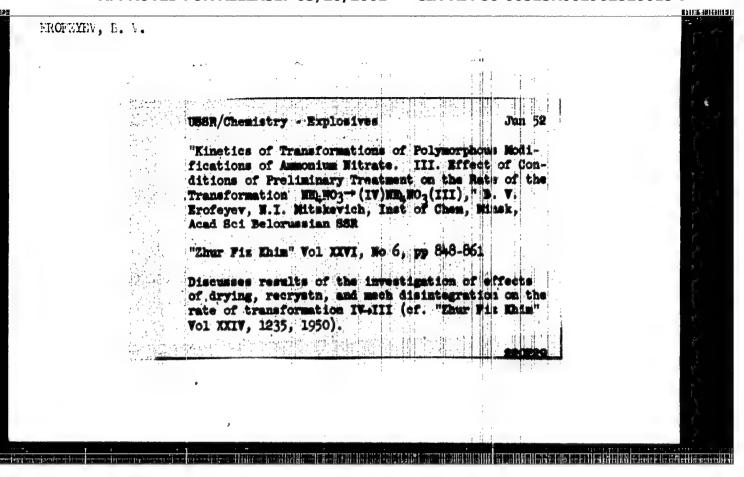


ILMUFLIEV. H. V.; EITSKEVICH, N. I.

Ammonium Nitrate

Kinetics of transformations of polymorphous modifications of ammonium nitrate. Fart 2. Effect of conditions of preliminary treatment on the rate of transformations of NH<sub>4</sub>NO<sub>3</sub> (III). Zhur. fiz. khim. 16 No. 6, 1952.

Monthly List of Russian Accessions, Library of Congress November 1952. Unclassified.



YEROFEYEV, B. V.

Berp 52

USSR/Chemistry - Permangamate Potassium

"Kinetics of Thermal Decomposition of Potassium Permanganate," B. V. Terofeyev and I. I. Smirnova, Inst of Chem, Acad Sci Belorussian SSE, Minsk

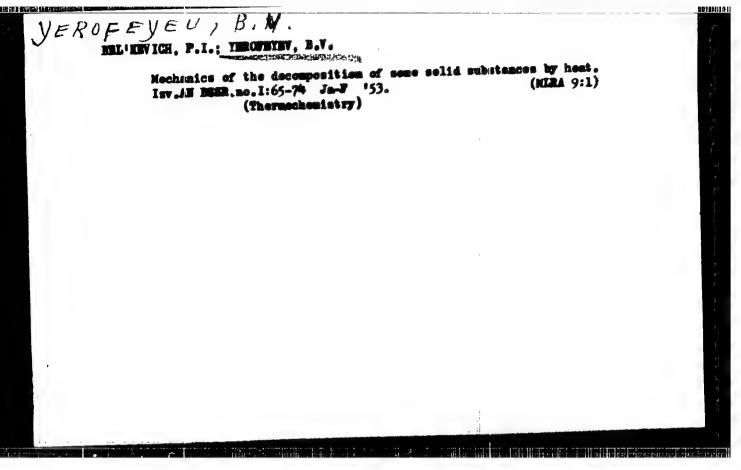
Zhur Fiz Khim, Vol 26, No. 9, pp 1233-1243

Studied the kinetics of the thermal decompn of crushed and uncrushed recrystallized KMn04 in a temp range of 211.5 - 227.6 C. Discovered that the decompn of KMn04 has a typical autocatalytic character and that practically the entire range of the reaction can be quantitatively described by the Kolmogorov-Yerofsysv eq. The values of "n", in most cases, were close to four or five, thus indicating single-stage and double-stage processes in the formation of the starting centers of the reaction, which arise at separate points on the surface of the crystals. The crushing of the KMn04 crystals did not change the general character of the kinetics of the reaction and left the value of "n" without substantial change. This led the authors to discount the theory of E. C. Prout and F. C. Tompkins (Trans. Farsd Soc. Vol 40, 488, 1944).

263 T 15

YEROFEYEV, B. V. oruse SSR, Minsk

Wilder Fiz Khim" Vol 26, No 11, pp 1631-1641 ΪA MH4NO3(IV). The authors add that the temp dependence The authors state that the rate of conversion of with tested prepus. pressed by the topokinetic eq  $\mathcal{K} = 1$  - exp (-- kth) throughout the whole range of the expts conducted MHLHO3 modifications III -> IV, similar to the rate of conversion of IV -> III, does not depend on the Genversion of KHiNO2(III) → NHiNO2(IV), B. V. Yero-Feyev and W. I. Mitskevich, Inst Chem, Acad Sci Bel-III -> IV. The preliminary initial heating of III at crease in the rate of the subsequent conversion of exptl error. Protracted keeping of III at the con-version temp of IV -> II (35.0-36.0°) leads to a desion of IV -> III) is the same, within the margins of tions (of temp and time elapsed after the conver-E repetition of the expt. II → IV. The kinetics of the conversion of the 55-600 also decreases the rate of the conversion tions of Ammonium Mitrate: III. Kinetics of the III->IV in expts conducted under identical condi-USSR/Chemistry - Ammonium Mitrate "Rinetics of Conversions of Polymorphous Modifics." eq. The temp coeff of the rate of conversion III ->IV is neg. of the rate of conversion of the modifications MH4NO3III -> IV is not subject to the Arrhenius Crushing the compd leads to a The rate of conversion of ELECTRICAL SECTION OF THE PERSON OF THE PERS Nov 52



# YEROPEYSV. B. V., and MITSKEVICH, N. I.

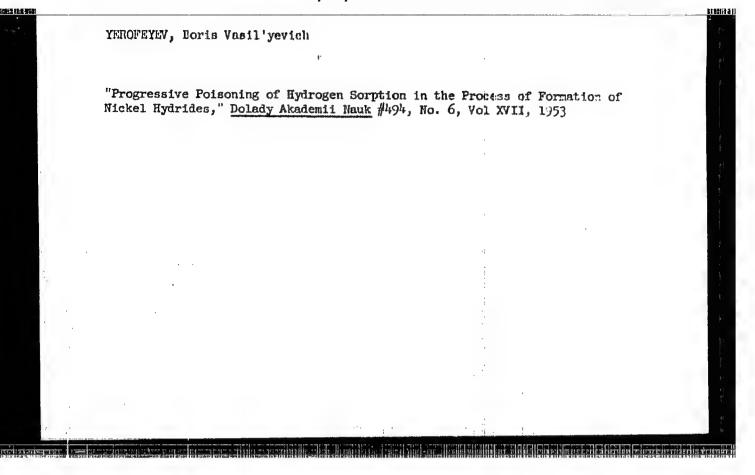
"Crycscopic Determination of Phenol and Ortho-Creeol in Peat Petroleum," Inv. AN Belorus. 5SR, No 5, pp 103-113, 1953

A tensionetric method (Yerofeyev, B.V., Mch. Jen. Kurlyshevsk. Gos.

Ped. i Uchit. In-ta, 1943, No 7, 65) was used for the determination of
the composition of the phenol fraction in peat petroleum (180-225 degrees).

The phenol content was 14.3 1 1.4; the ortho-cresol content was 6.2 1
o.5. Naphthalene was not detected. (RZhKhim, No 20, 1954)

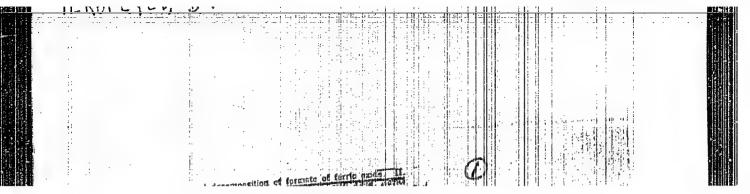
SO: Sum, No. 606, 5 Aug 55

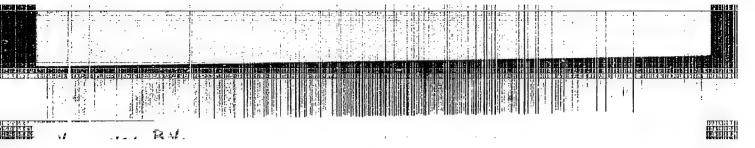


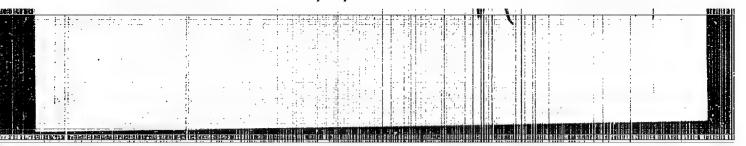
"APPROVED FOR RELEASE: 03/20/2001

CIA-RDP86-00513R001962820015-7

EROFINEV. B.	and the second of the particular	tion II, and were investof along a 268r19  a conversion  a	
	USSR/Chemistry - Explosives  "Kinetics of the Conversions of Polymorphous Modifications of Amendium Hittoria, IV. Conversion Missions of Amendium Hittoria, IV. Conversion Missions (III), U.B.V. Erofeyev and U.B. INTERVICED ACTOR (III), U.B.V. Erofeyev and U.B. INTERVICED ACTOR (III), U.B.V. Erofeyev and U.B. Mitskevich Actor Sci., Belorussian SGR, Minsk	The kinetics of the polymorphous conversion of the modification III of Mig Mo, to modification III, and modification III of Mig Mo, to modification III, and the kinetics of the reverse conversions of the modifications of Mig Mo, III = II, proceed along a fications of Mig Mo, III = II, proceed along a series of the autocatalytic type and, in general, or a malagous to the previously-studied conversion of the topokinetic equation, in general, and III. The topokinetic equation of the conversion of the modifications of Nig Mo, i experience of the modifications of the modifications of the modifications of	
	"Kinetics of the rications of Amin HO3(III) & Mitskevich Inst	The kinetics of the kinetics of the kinetics of the kinetics of the poting to the autore of the III. The (-kf), adequate conversion of the III.	







YEROFEYEV B.V.

USER/Organic Chemistry - Naturally Occurring Substances and The: Ir Synthetic Analogs,

Abst Journal: Referat Zhur - Khimiya, No 1, 1957, 1034

Author: Yerofeyev, B. V., Mitskevich, N. I., and Soroko, T. I.

Institution: Academy of Sciences Belorussian SSR

Title: Conjugated Decarboxylation During the Autoxidation of Dehydroabietic Acid

Original

Periodical: Izv. AN BSSR, 1955, No 2, 131-135 (published in Hussian); Vestsi AN

BSSR, 1955, No 2, 124-128 (published in Belorussian)

Abstract: It has been established that the autoxidation of dehydroabietic acid

(I) is accompanied by decarboxylation. Heating colophony (3 hours at  $340^{\circ}$ ) yields the "pyroacid," which is sulfonated; acid hydrolysis of the sulfodehydroabietic acid yields I, mp 172-173.5° (from alcohol)  $\alpha$ /D + 63.77°. Autoxidation of I is carried out in naphthalene at 85 and 95° in the presence of Co-acetate (II) (one percent by weight

based on I). The apparatus described previously (Referat Zhur - Khimiya,

Card 1/2

### "APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R001962820015-7 SPORT OF COMES AND THE OFFICE AND THE STORES OF THE STREET PROPERTY AND A STREET AND ADDRESS OF THE STREET ADR

U3SR/Organic Chemistry - Naturally Occurring Substances and Their Synthetic A- E-1

Abst Journal: 1955, 51500) was used in studying the kinetics of the autoxidation. The quantity of O2 absorbed (and the rate of autoxidation) were determined by measuring the increase in weight of tubes packed with askarit through which the gas from the reaction vessel is passed; the gas is displaced by a stream of O2. With an initial flow rate of 0.7 ml 02/min/gm I the autoxidation of I practically stops when 0.21 Upon displacement of the gas moles 02/mole I have been absorbed. from the reaction vessel with a stream of O2 the reaction rate increases to 0.56 ml 02/min/gm. When an additional 90 ml of gas have been absorbed the reaction rate drops off sharply. Analysis of the gas evolved during the reaction showed the presence of 35-45% CO2. The ratio CO2:02 depends on the quantity of II used and various little during a particular experiment. The decarboxylation of I loes not proceed in an atmosphere of No. The authors are of the opinion that 4 processes are involved in the autoxidation and decarboxylation of I: (1) formation of the hydroperoxide radical from the I radical by C(9); (2) formation of the I radical by the carboxyl group (III); (3) decarboxylation of III; and (4) splitting-off of one H-atom from C(9) of the new molecule of I by interaction with III.

Card 2/2

# YERAFEYEU, B.V.; DUBOVIK, V.I. Activation energy in the process of thermal inactivation of crystallised catalase extracted from the liver of oxes. Vests: AN BSSS.Ser.fis.-tekh.nav.no.3:31-36 \*\* 156. (MLRA 10:1) (Catalase) (Liver extract) (Activity coefficients)

USSR/Physical Chemistry - Kinetics, Combustion, Explosions, Topochemistry, Catalysis.

B..9

Abs Jour: Referat. Zhurnal Khimiya, No 2, 1958, 3884.

Author : B.V. Yerofever, L.T. Memdzeleyev.

: Academy of Sciences of White Russian SSR. Inst

: Kinetics of Polymorphous Conversion of ol-Resordin into Title

3 -Besorcin.

Orig Pub: Vestsi AN BSSR. Ser. fiz.-tekhn. n., Izv. AN BSSR. Ser. fiz.-

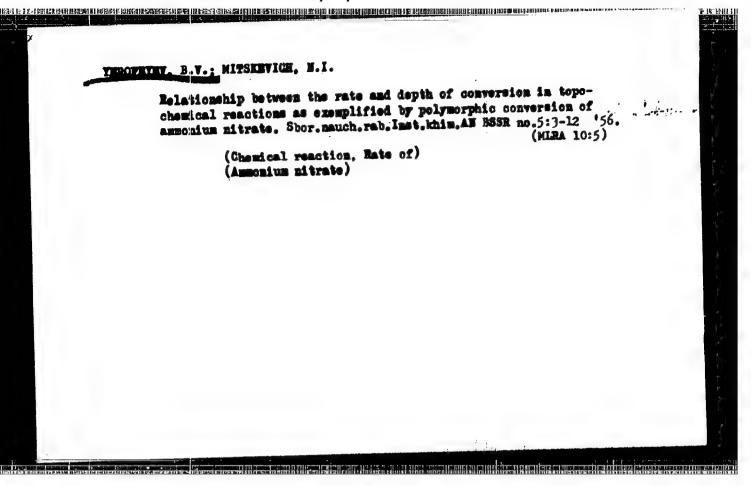
tekhn. n., 1956, No 4, 99-110.

Abstract: The kinetics of the conversion of the low temperature modification of resorcin into its high temperature modification was studied at 72 to 100°. It is shown that the studied reaction follows the topokinetic equation 1/(1-a)-1=kt. The determinant

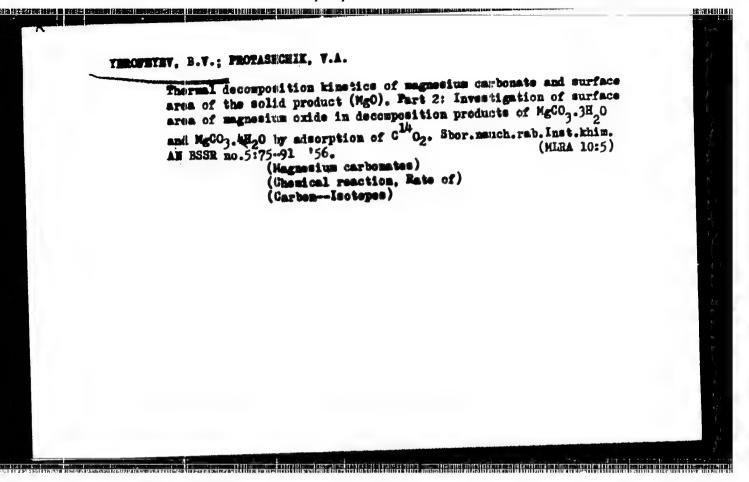
mined activation energy is 33,900 cal per mole.

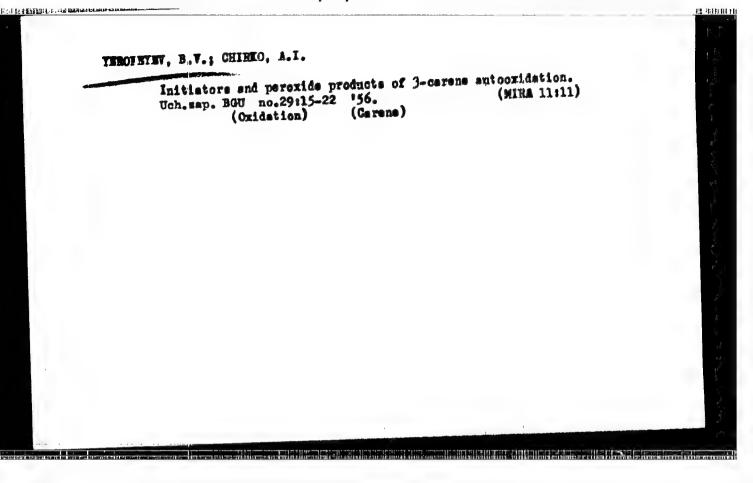
: 1/1 Card

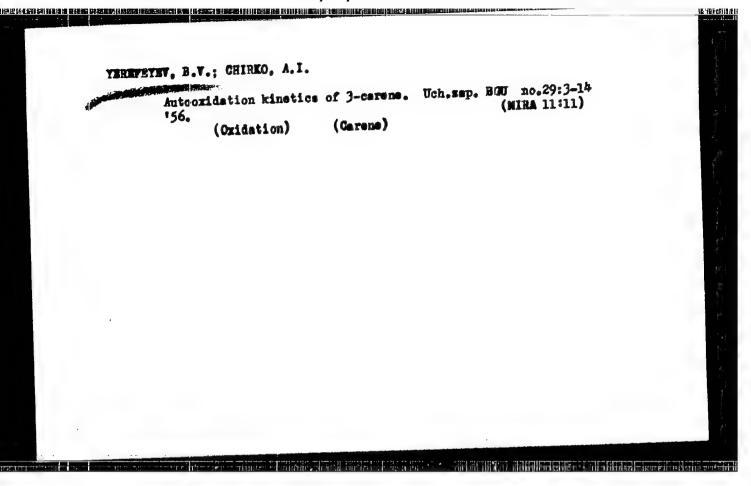
-14-



# Thermal decomposition kinetics of magnesium carbonate and surface area of the solid product (MgO). Part 1: Thermal decomposition kinetics of MgCO<sub>2</sub>,3H<sub>2</sub>O and MgCO<sub>3</sub>,4H<sub>2</sub>O. Shor.nauch.rab.lnst.khim. 156. AM BSSR no.5:58-74 (Magnesium carbonates) (Chemical reaction, Rate of)







### "APPROVED FOR RELEASE: 03/20/2001

CIA-RDP86-00513R001962820015-7

YEROFEXEY, B.V.

B-8 USSR/Physical Chemistry - Thermodynamics, Thermochemistry, Equilibria, Physical-Chemical Analysis, Phase Transitions.

: Referat Zhur - Khimiya, No 1, 1958, 389

B.V. Yerofeyev, I.T. Mendeleyev. Author

: Academy of Sciences of White-Russian SSR. Inst

: Kinetics of Phase Transformation HHLBr (I) IND Br (II). Title

: Vestsi AM BESR. Ser. fiz.-tekhn. n., 1957, Mo. 1, 57-63 Orig Pub

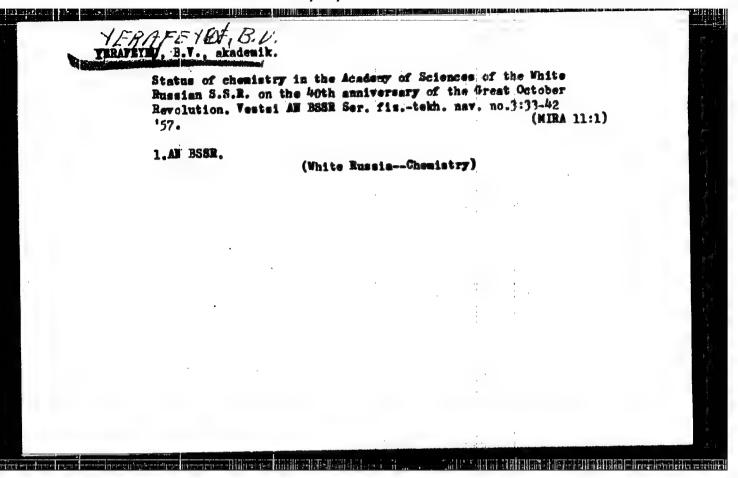
The kinetics of the phase transformation MigBr (1) Abstract

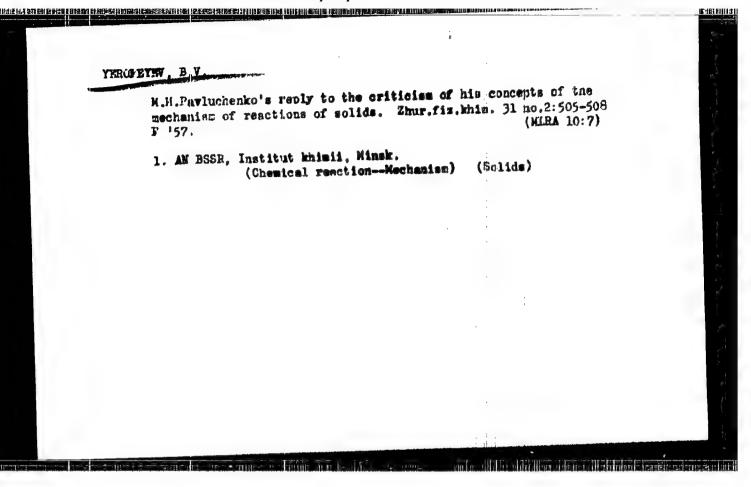
MHABE (II) was investigated. It is described by the equation  $1/(1-\alpha)-1=Kt$ , where  $\alpha$  is the share of the new phase, K is constant and t is time. It is explained as a process proceeding through the formation

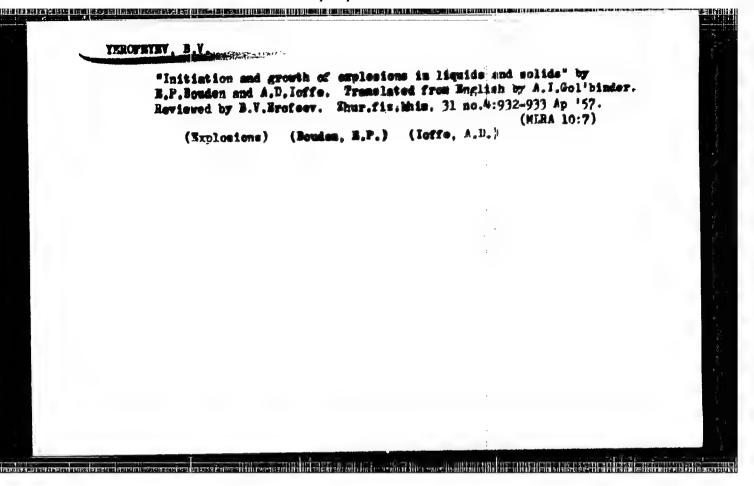
and growth of kernels of the solid product.

Card 1/1

Abs Jour







YEROFEYEV, B.V.

AUTHOR

TITLE

Hitskevich, N. I., Soroko, T. I., Yeroferev, B. J., Academician, 20-1-1-/54

Belorussian SSR Academy of Sciences

Conjugate Decarbozylation on the autoo: 1 letion of isographical as

SEFERRARY OF TREASURED SERVICE AND RESPONDED AT SECURITIES AND RESPONDED TO THE OFFICE AND RESPONDED TO THE OFFICE AND ADDRESS OF THE OFFICE ADDRESS OF THE OFFICE AND ADDRESS

in a Mixture with Fatty Acids. (Sopryazhennoyedekarboksilirovaniye pri avtookislenii izopropil-

benzola v smesi s zhirnymi kislotami -Russian) Doklady Akad. Nauk SSSR, 1957, Vol 115, Nr 1, pp 103-106 (U.S.S.d.)

PERIODICAL ABSTRACT

It was shown by the authors in earlier papers that the low-temperatire autooxydation of resinous acids is accompanied by a decarboxylation of these acids. In this connection it was interesting to find out whether a conjugate decarboxylation of carbonic acids in a mixture with a hydrocarbon which are subject to autooxydation was possible. The tests made for this purpose show that an autooxydation of isopropulabenzene in a mixture with acetic, butyric, isobutyric and stearic 19165 is actually accompanied by a conjugate decarboxylation. Thus the ompdate ion of the hydrocarbon induces the connected decarboxylation process of the acid(terminology by Shilov). Since the autooxydation of hydrocarbons, especially at higher temperatures, may lead to the formation of acids capable, in the course of further autooxydation, of a conjugate decarboxylation, the discovery of this phenomenon is of certain interest for the understanding of theoxydation chemism of hydrocarbons in general. The self-acting decarboxylation of fatty acids only takes place at considerably higher temperatures than the conjugate decarboxalation discovered by the authors. Ill. 1 shows that the autooxidation

Card 1/3

Conjugate Decarboxylation of the Autooxidation of Iso 20-1-28/54 propylbensens in a Mixture with Fatty Acids.

speed of isopropylbenzene is about four times higher in the presence of an acid than without an acid. The initial speed was highest, then it decreased. Tab. 1 shows the influence of the acid concentration on this speed. Addition of 1,04 % of isobutyric acid increases the speed more than four-fold. Further additions of acid virtually do not change the amount of oxygen absorbed at all. However, they bring about an increase in the developing CO2 more than six-fold, at a practically unchanged amount of absorbed exygen. The test results of the oxydation of isopropylbenzene in a mixture with radioactive acetic acid(labeled on the carboxyl)confirms that the escaping CO2, at least partly, develops at the expense of the carboxyl group of the added acid. The tests with oxydation of acetic, butyric, isobutyric and stearic acids under analogous conditions but without isopropylbenzene showed that neither an absorption of oxygen nor a formation of CO2 takes place. The small amount of CO2 escaping on this occasion probably represents a process which is connected with the autooxydation of these acids. A scheme is proposed for the conjugate decarboxylation process of organic acids with a simultaneous autooxydation of hydrocarbons. It consists of: 1.formation of the radical of isopropylbenzene peroxide, 2.interaction of this radical with the organic acid under formation of a acid radical, 3. the decarboxylation as such, 4.separation of a hydrogen aton from isopropylbenzene in the tertiary group due to interaction

Card 2/3

Conjugate Decarboxylation of the Autooritation of Iso- 20-1-28/54 propylbenzene in a Mixture with Patty Loids.

with the produced radical R. This reaction leads to the regeneration of the initial radical. Thus the reactions 2 - 4 are chain-transmission reactions. It was demonstrated an induction of the kind mentioned above really takes place.

(3 illustrations, 1 table and 7 Slavic references)

ASSOCIATION Institute for Theristry of the Academy of Sciences of the Belorassian (Institut khimii Akademii Nauk BSSR) SSR.

PRESLYTED BY

SUBMITTED

12.1.1957

AVAILABLE Card 3/3

Library of Congress.

YEROFEYEV, B.V.

PHASE I BOOK EXPLOITATION

BOV/1285

Akademiya namk Belorusakoy SSR. Institut khimii

Sbornik nauchnykh rabot, wyp. 6 (Collection of Scientific Works of the Institute of Chemistry, Belorussian SSR Academy of Sciences, E. 6) Minsk, Izd-vo AN Belorusakoy SSR, 1958. 271 p. 1,100 copies printed.

Ed.: Yerofeyev, B.V., Academicien, BEER Academy of Sciences; Tech. Ed.: Volokhanovich, I.

PURPOSE: The book is intended for chemists engaged in research in specialized fields.

COVERAGE: The book is a collection of scientific articles dealing with varied subjects, such as problems in electron theory of semiconductors, catalysis, sutoxidation of abletic acid, thermodynamics of some reactions of sulfur organic compounds and reactions of alkyl, eryl, neyl-oxy radicals in the liquid phase. Personalities are mentioned in the individual articles. There are 331 references, of which 215 are Soviet, 75 English, 30 German, 10 French, and 1 Finnish

Card 1/5

NEW CERTAIN COLUMN

			3
collection of Scientific Works (Cont.)	. sov/1285		
Vol'kenshteyn, F.F. Some Problems in the Electron on Semiconductors	•	3	
Merofeyev, B.V., and V.A. Proteshchik. Study of Co Between Particles of Cobalt Formate and Metallic Aid of the Mactope Co.		39	
Markevich, S.V. Attachments for the MS-24 Mass Spa Studying Gaseous Phase Deuterium Exchange React:		47	
Osinovik, Ye.S. Study of the Formation of Initial the Induction Period of Thermal Decomposition of	Reaction Centers in f Barium Aside	59	
Mitskevich, M.I., T.I. Soroko, and B.V. Yerofeyev. lation in the Autoxidation of Abietic Acid	Conjugated Decarboxy-	66	
Yerofeyev, B.V. and S.F. Hemmove. Thermodynamics Organic Sulfur Compounds	of Some Reactions of	83	
Card 2/5			

Collection of Scientific Works (Cont.) SOV/1	L <b>2</b> 85
Filonov, B.O. and M.M. Pavylyuchenko. Determination of Copper, Lithium and Rubidium in Mineral Salts by Spectrum Analysis	92
Pavlyuchenko, M.M., V.M. Akulovich, K.V. Dubovik, and M.M. Bulygo. Trace Elements (B, Mn, Sr, Zn) in Salts of Starobinskoye mestorozhdeniye (Deposit) and Their Quantitative Spectrum Analys	is 102
Aleksandrovich, Kh. M. Separation of Sylvinite Ores in a Hydrocycle	
Krivchik, Z.A. and N.F. Yermolenko. Structure and Adsorbability of Peat Charcoals. Part II	125
Novikova, Te.N. and N.F. Yermolenko. The Relationship of Sorption Deterioration Prevention by Inhibitors in the Oxidation of Rubbe	and or 133
Levina, S.A. and N.F. Yermolenko. Adsorbability and Structure of Sesquioxide (lels in Relation to their Thornal Treatment	145
Starobinets, G.L. and V.S. Komarov. The Modeling of Systems: Rubber-like High Polymer Binary Mixture of Components of Iow Molecular Weight	7.F.
Card 3/5	154

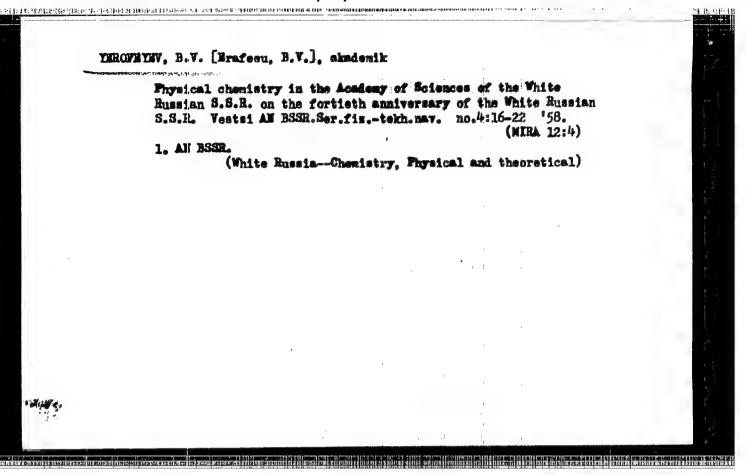
•	
Collection of Scientific Works (Cont.) 80V/1285	
Komarov, V.S. Study of Equilibrium Curves of a Binary Polymer-Solution Mixture	163
Korotkov, K.N. (decessed) and Yu.P. Klyuyev. Conversions of M-Pinene Under the Action of Gaseous Boron Fluoride	170
Klyuyev, Yu.P. Investigation of Conversion Products of A-Pinene in the Presence of Ortho-phosphoric Acid	176
Yerofeyev, B.V., and S.F. Neumova. Inhibitory Effect of Hydroquinone.on the Polymer zation of Methyl Methacrylate	190
Merofeyev, B.V. A.N. Bakh's Peroxide Theory in the Light of Modern Studies	228
Shlyk, V.G. Kinetics of Photopolymerization of Vinyl Acetate in the Presence of Benzoyl Peroxide	234
Ol'dekop, Yu.A. Reactions of some Alkyl-, Aryl-, and Acyloxy Radicals in Liquid Phase	243
Cerd 4/5	

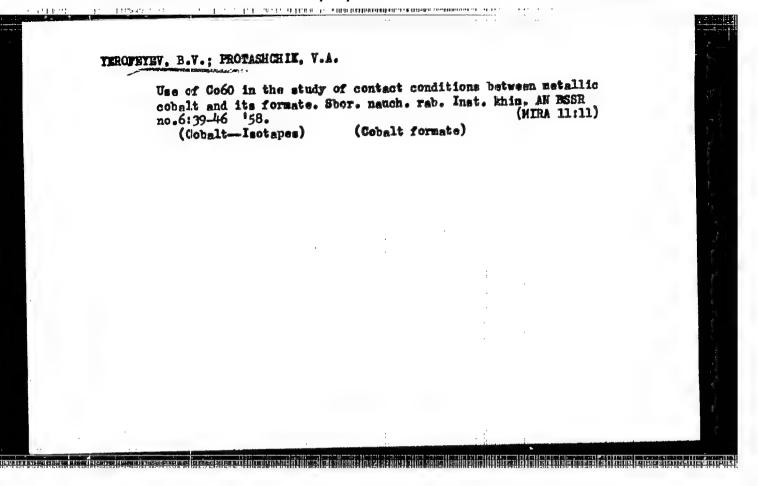
Collection of Scientific Works (Cont.)	sov/1285
Cherches, Kh.A. Nature of Sapinic Acid Isolat of Norway Spruce	ed from the Resin
AVAILABLE: Library of Congress	
Card 5/5	
,	
1	
TM/3-20-	·
<b>1</b>	< O
3-20-	2

YEROFEYEV, B.V. [Brafeeu, B.V.]; PRATASHCHYK, Y.A.

Determination of surface area of magnesium oxide in a mixture with magnesium carbonate by chemsorption of radioactive carbon dioxide. Vestsi AN BSSR. Ser. fix.-tekhn.nav. no.2:61-66 158. (NIRA 11:10)

(Sorption) (Magnesium oxides) (Magnesium carbonates)





NITSENICH, H.I.; SOROMO, T.I.; YEROFEINV, B.V.

Conjugated decarboxylation in ante-oxidation of abietic acid. Sbor.
neuch. rab. \_nst. khis. AN BSSR no.6:66-82 '58. (NIRA 11:11)

(Cridation)

(Abietic acid)

TENTETEV, B.V.; NAUNOVA, S.F.

Thermodynamics of some reactions of sulfur organic compounds.

Shor. nauch. rab. Inst. khim. AN BSSR no.6183-91. '58.

(MIRA 11:11)

(Sulfur organic compounds) (Chemical reactions)

# "APPROVED FOR RELEASE: 03/20/2001

CIA-RDP86-00513R001962820015-7

sov/B1-59-10-37459

Translation from: Referativnyy zhurnal. Khimiya, 1959, Nr 10, p 577 (USSR)

Yerofeyev, B. V., Naumova, S.F. AUTHORS:

On the Enhibiting Effect of Hydroquinone on Polymerization of Methylmetha-crylate TITLE:

Sb. nauchn. rabot In-ta khimii AS BSSR, 1958, Nr 6, pp 190-227 PERIODICAL:

The kinetics of the polymerization of methylmethacrylate in the presence of hydroquinone at 65 - 80°C has been investigated. The polymerization ABSTRACT:

rate obeys the equation  $(v_0 - v_{inh}^2)/v_{inh} = (k_0^2/k_0) k_gMC$  ( $v_0$  and  $v_{inh}$  are the rates of polymerization in the absence and the presence of an inhibitor,  $k_{\rm O}$ ,  $k_{\rm C}$  and  $k_{\rm B}$  are the constants of the rates of the rupture reactions on an inhibitor, at the interaction of two polymer radicals and the reaction of chain growth, M and C are the concentrations of the monomer and the inhibitor, respectively. A diagram of inhibition has been proposed, accord-

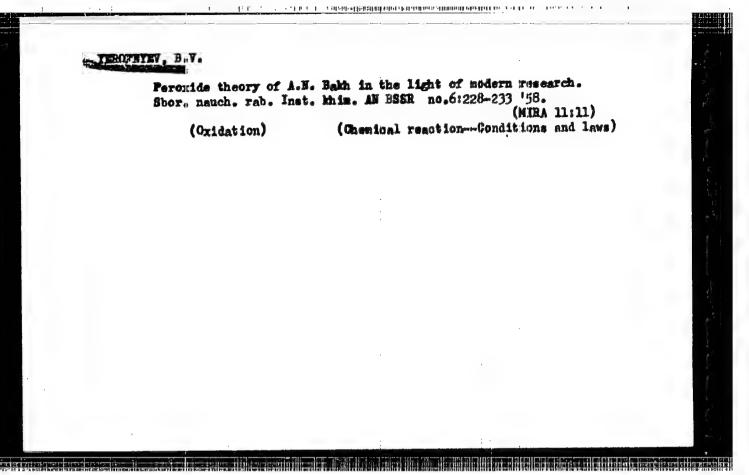
ing to which hydroquinone breaks the reaction chain as a result of the

direct interaction with the growing polymer radical with formation of ben-Card 1/2

On the Inhibiting Effect of Hydroquinone on Polymerization of Methylmethacrylate zoquinone and probably semiquinone, as an intermediate product, which also break the chain.

A. Pravednikov

Card 2/2



79-28-5-38/69

AUTHORS:

Yeroferer R. V., Yemel'yanov, H. P., Haumova, S. F.

TITLE:

On the Absorption Spectrum of Cyclohexadiene-1,3 Within the Range of From 220 - 300 ωμ (O spektre pogloshcheniya tsiklo-

geksadiyena-1,3 v oblasti 220 - 300 mµ)

PERIODICAL:

Zhurnal Obshchey Khimii, 1958, Vol. 28, Nr 5,

pp, 1284 - 1286 (USSR)

ABSTRACT:

The absorption spectrum of cyclohexadiene-1,3 in the ultraviolet range has been investigated in a great number of papers (References 1-3), however, the results of different authors do not coincide. In table 1 the magnitudes found by different authors for the maximum positions and the absorption coefficients are mentioned. The given data (table 1) show that

the results of different authors who investigated the absorption spectrum of cyclohexadiene=1,3 in the ultraviolet range do first of all not coincide with respect to the number of maxima on the absorption curve. It is possible that this deviation of the data of some scientists is based on the insufficient purity of the investigated product. In connection with this the authors

Card 1/2

and meniani in identical in literal lane has sensemant ( s.) de in it i declerate et 1821 il 21 il 22 il 22 il

79-28-5-38/69

On the Absorption Spectra of Cyclohexadiene-1,3 Within the Range of From 220 - 300 mm

took the absorption spectrum of cyclohexadiene-1,3 in the ultraviolet range. The product was synthetized in the Laboratory for Technical Analysis of the Institute for Chemistry of the AS USSR and therefore can be looked upon as a purer compound than that of the other scientists. Thus the absorption spectrum of cyclohexadiene-1,3 has, contrary to earlier data, only one maximum within the ultraviolet range (220 - 300 mm) which as regards its vapors comes to lie on 250.5 mm (Lge 3.73) and, as regards its solutions in hexane and alcohol, on 258 mm (Lge 4.00). There are 2 figures, 2 tables and 3 references, none of which are Soviet.

ASSOCIATION:

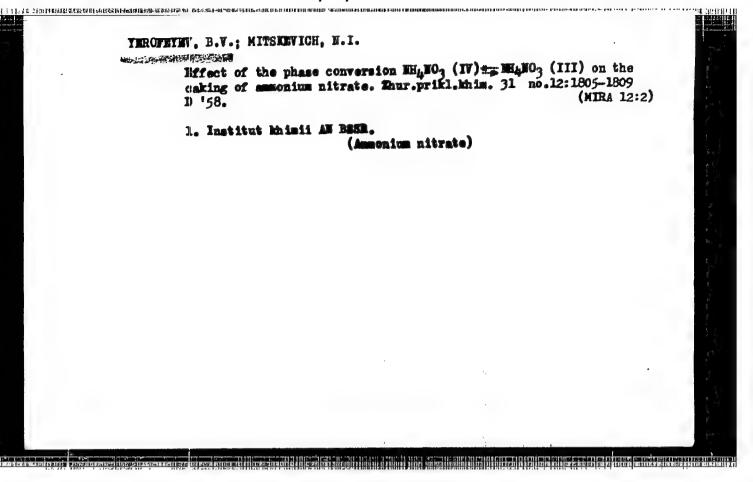
Institut khimii Akademii nauk Belorusskoy SSR (Institute for

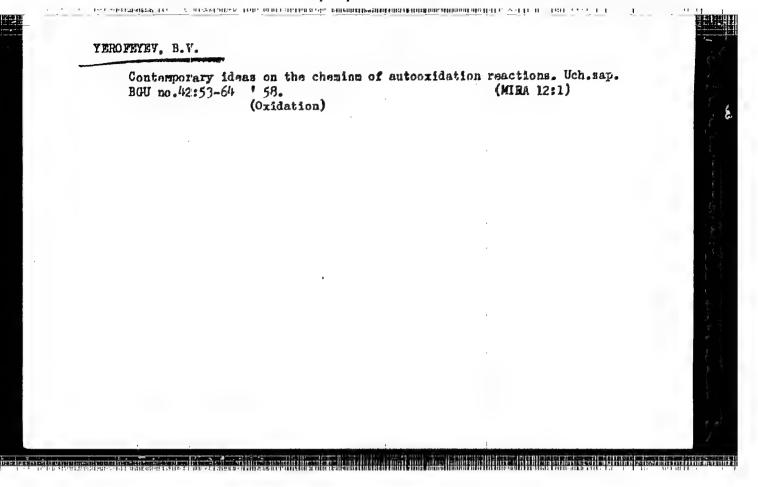
Chemistry, AS Belorussian SSR)

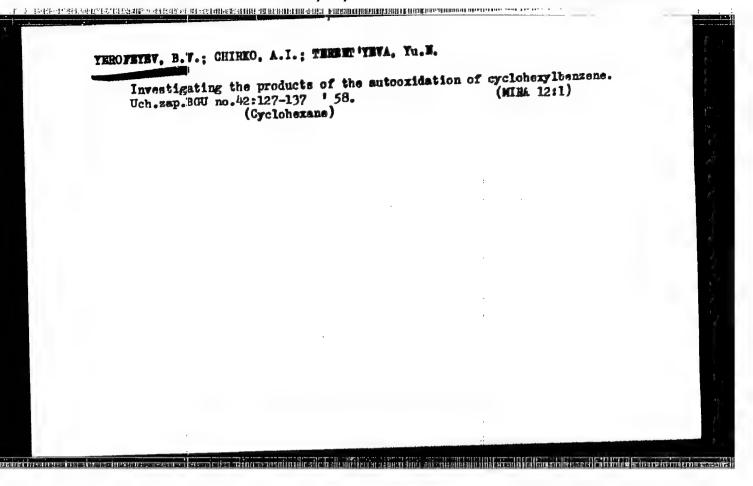
SUBMITTED:

April 29, 1957

Card 2/2



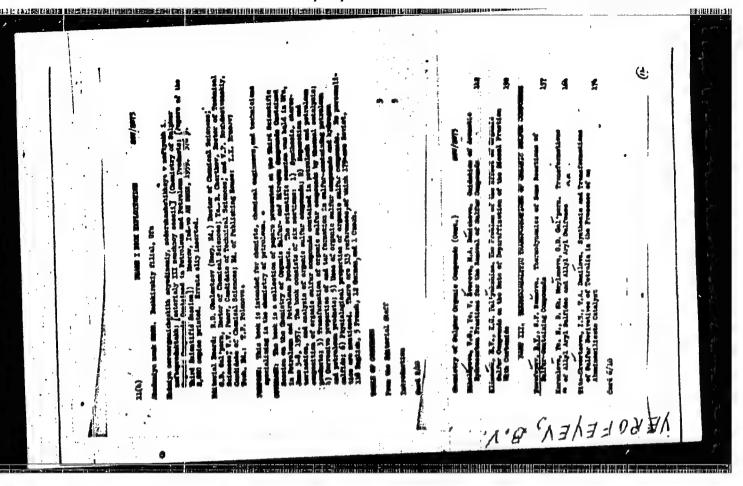


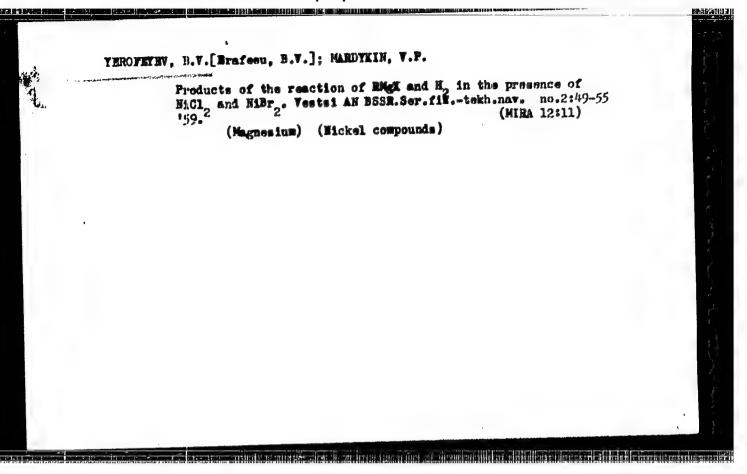


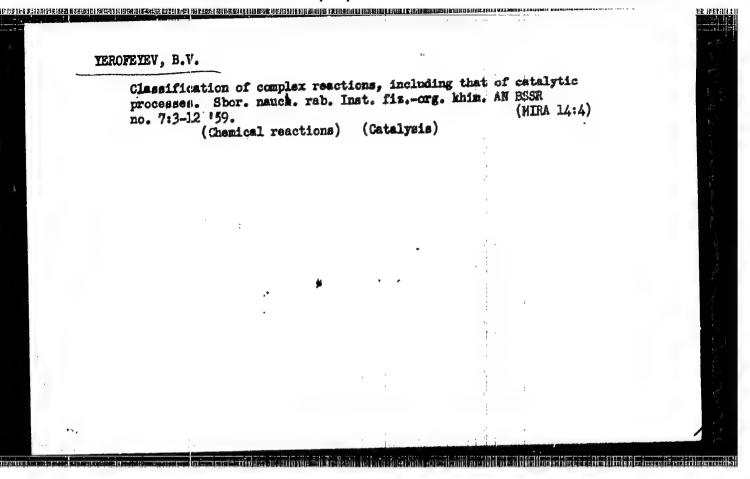
LIPETSKIR, Mikheil Semenovich; YEROFNEY, Boxia Fladimirovich; TVERDOY,
A.A., red.; ASTAIROVA, I.V., tekhn.red.

[Land utilization in cities, workingmen's settlements, summer and health resorts] Zemlepol'sovanie v gorodskih, rebochikh, dachnykh i kurortnykh poselkakh. Moskva, Gos.isd-vo iurid, lit-ry, 1959.

285 p. (Land) (City planning)







01000

\$/081/60/000/023/002/021 A005/A001

11.6 200 ala 2209 Translation from: Referativnyy zhurnal, Khimiya, 1960, No. 23, p. 65, # 91636

AUTHOR:

Merofeyev, B.V.

TITLE:

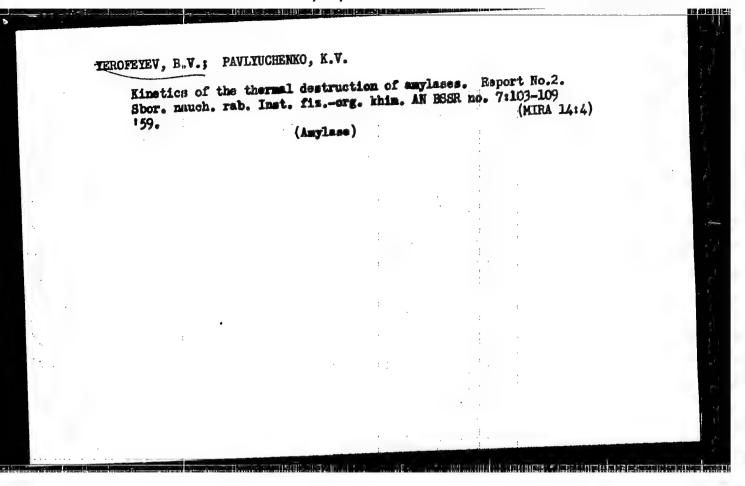
On the Nature of Autocatalysis in Reactions of Solid Substances

PERIODICAL:

Sb. nauchn. rabot. In-t fiz.-organ. khimii AN BSSR, 1959, No. 7,

pp. 13 - 22

The possible reasons are considered of self-acceleration in topochemical reaction processes: self-Heating, self-disintegration of crystals during the reaction, chain mechanism and catalytic action of the reaction product. On the basis of experimental materials (Yerofeyev, B.V., et al., Izv. AN BSSR, 1950, No. 5, p. 145) and the works of other investigators, the author concludes that the catalytic action of the solid product is the main reason of self-acceleration, The mechanism of the catalytic action of the solid product consists, in the author's opinion, in the formation, in the course of the reaction, of a boundary layer with an altered electron concentration in the interface between the initial substance Translator's note: This is the full translation of the original Russian abstract. Card 1/1



TEROFSTEW, B.V.; HAUMWA, S.F.; TSTKAIO, L.G., ZHAVNERKO, K.A.

Polymerization of 1.3-cyclohexadiene. Dokl.AM BSSR 3 no.3:95-99

Mr 159.

(Cyclohexadiene)

TEROFFIEV, B.V.; CHIREO, A.I.; TERREFT YEVA, Yu.E.

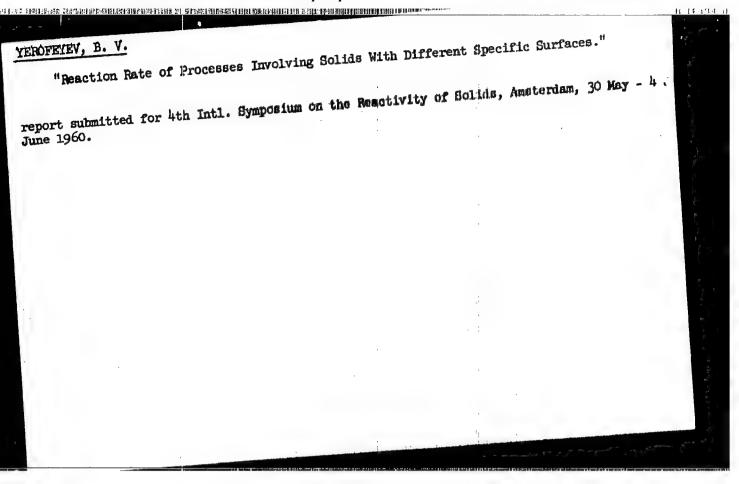
Kinetics of liquid-phase autoxidation of phenyloyulohexane.

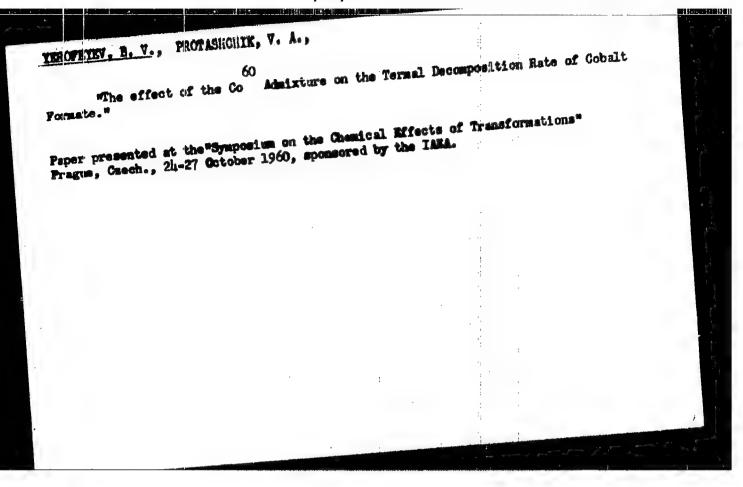
Dokl. AN BSSE 3 no.6:244-248 Je '59. (MIRA 12:10)

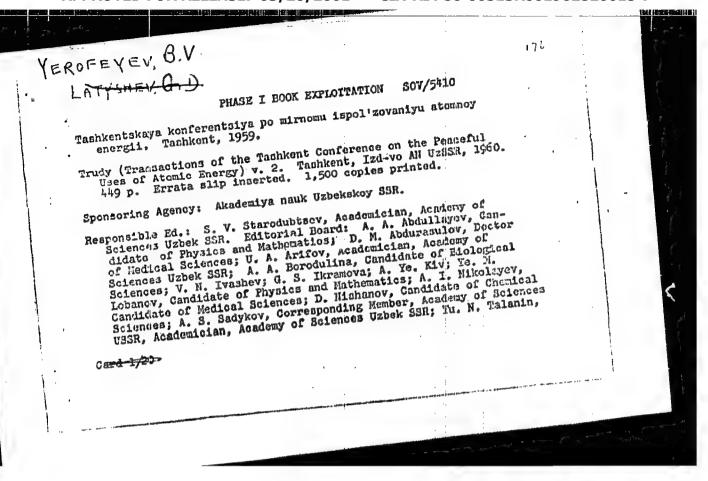
(Hexane) (Oxidation)

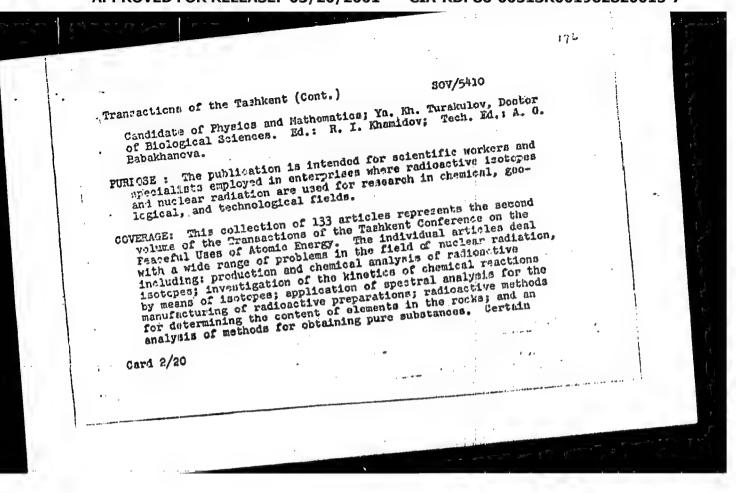
YEROFEYEV, B. V. and NIKIFOROVA, N. V.

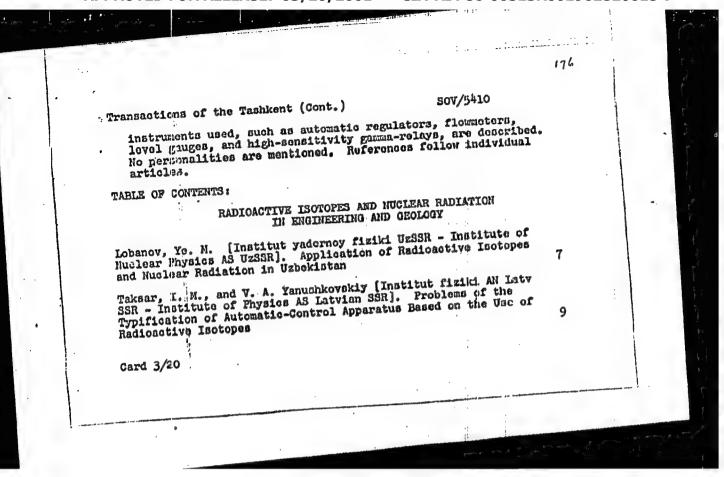
"The Catalytic Change of Chyclohexine on Copper and Multiplet Theory."
report submitted for the Second International Congress on Catalysis, Paris, 4-9 Jul 60.











	"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R001962820	J13-/
	A DESCRIPTION OF THE PROPERTY	
	7	
	The second secon	
1.	sov/5 <sup>1</sup> 10	
	Radium Institute imeni V.G. Khlopin AS USSR]. State of the Micro- grantition of Radioactive Elements in Solutions  (Radium Institute imeni V.G. Khlopin AS USSR]. State of the Micro- grantition of Radioactive Elements in Solutions  (Radium Institute imeni (Radium Institu	
	of Solid Substances of Solid Substances of Solid Substances  Levin, V. I., and V. V. Bochkarev [Hinistry of Health USSR].  Levin, V. I., and V. V. Bochkarev [Hinistry of Health USSR].  Obtaining Radioactive Isotopes in the Reactors by Frams of Obtaining Radioactive Isotopes in the Reactors by Frams of Obtaining Radioactive Isotopes in the Reactors by Frams of Health USSR].  Peculiarities in Bukharov, I. N. [Ministry of Health USSR]. Peculiarities in Inchesional Inchesional Analysis of the Tagged Organic Compounds Identification and Analysis of the Tagged Organic Compounds	
	card 17/20	
	the state of the s	
	The state of the s	
	and the second s	

s/081/61/000/015/004/028 B105/B201

AUTHORS

Yerofeyev B. V.

TITLE

Kinetics of low-temperature exidation of terpenes and related hydrocarbons

PERIODICAL:

Referativnyy zhurnal. Khimiya, no. 13, 1961, 70, abstract 13E513 (Vopr. khimii terpenov i terpenoidov. Vil'nyus, 1960.

TEXT: On the basis of a study of the chain mechanism of auto-oxidation of unsaturated hydrocarbons (RH), which includes the initiation of the chains during the interaction of RH with a metal salt (MX2) according to the reactions RH +  $MX_2 \rightarrow R^{\circ}$  + MX + HX (1) and RH +  $MX \rightarrow M$  +  $R^{\circ}$  + HX (2), and from the reaction of chain growth and rupture, the author concludes that the oxidation rate V is proportional to [RH] and 1/V to the quantity 1/[MX2]. The latter function was observed during the oxidation of  $\Delta^3$ -p-menthene. For phenyl dyclohexame V is proportional to [RH]5. In order to explain this Card 1/2

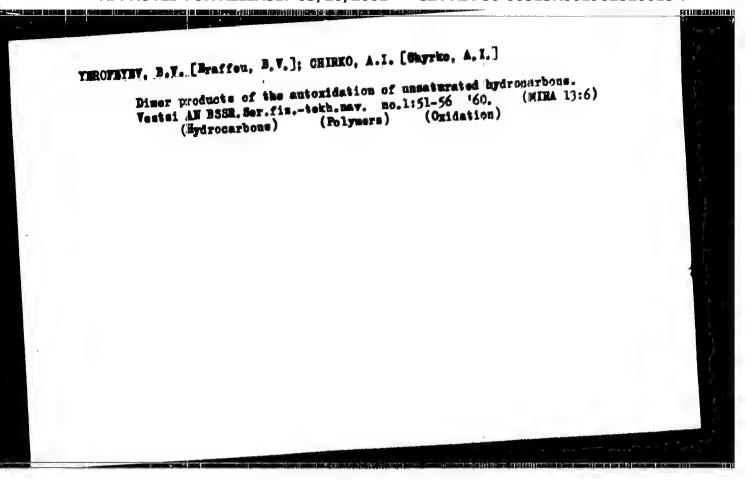
8/081/61/000/013/004/028 B105/B201

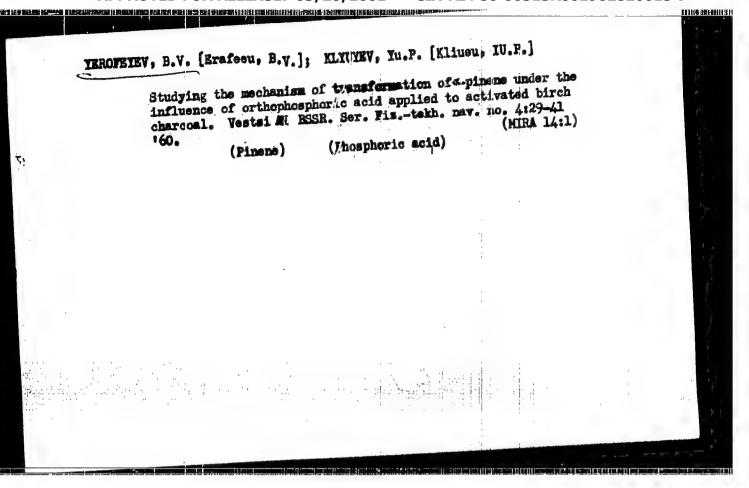
Kinetics of low-temperature...

fact, the author considers the initiation of the formation of the complex [M(RH)2]X2 (I) to be the first stage and assumes that, according to the structure of RE, the nature of the initiator, and the experimental conditions, the initiation proceeds either according to reactions (1) and (2), or to the reactions zRH + MX2-I and I-2R' + M + (\* 2)RH + 2HX, which leads to different dependences of V on [RE] . [Abstracter's note: Complete translation.

Card 2/2

CIA-RDP86-00513R001962820015-7" APPROVED FOR RELEASE: 03/20/2001





s/081/61/000/021/093/094 B106/B203

AUTHORS:

PERIODICAL:

Yerofeyev, B. V., Naumova, S. F., Kulevskaya, I. V.

TITLE:

Enitiation of ethylene polymerization by a complex of etherates of Grignard compounds and titanium tetrachloride

Referativnyy zhurnal. Khimiya, no. 21, 1961, 507, abstract

21E55. (Sb. nauchn. rabot. In-t Fiz.-organ. khimii AN BSSR, no. 8, 1960, 80 - 82)

TEXT: It was shown that etherates of butyl magnesium bromide and phenyl magnesium bromide synthesized in anisole at 100 - 120°C formed an active catalyst with TiCl, for the polymerization of ethylene. The polymer yield was doubled when increasing the ratio RMgX : TiCl4 from 1.4 to 1.7. Etherates containing (C2H5)20 did not form an active catalyst with TiCl4. Abstracter's note: Complete translation.

Card 1/1

8/081/61/000/021/094/094 B106/B203

5.3830

AUTHOES:

Shlyk, V. G., Yerofeyev, B. V.

TITLE:

Initiation of polymerization by systems of salts of transi-

tion mutals and peroxide compounds

PERIODICAL:

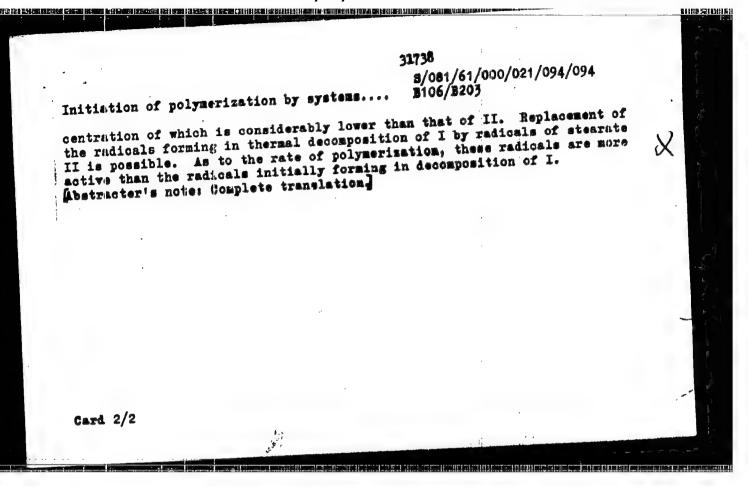
Referativnyy zhurnal. Ehimiya, no. 21, 1961, 507, abstract 21R57 (Sb. nauchn. rabot. In-t Fise-organ, khimii AN BSSR,

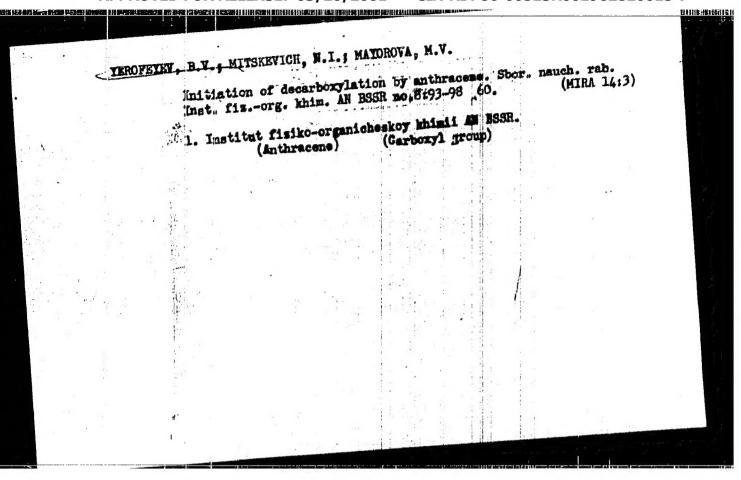
no. 8, 1960, 83 - 87)

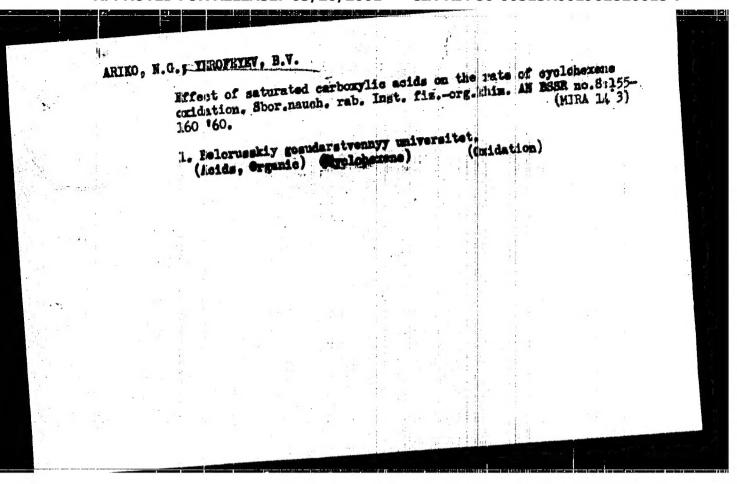
The initiation of polymerisation of methyl methsorylate and styrene by systems of cumene hydroperoxide (I) and manganese stears (II) was examined. The kinetics of this process was gravimetrically studied.

The rate of polymerization in vacuum at 60°C in the presence of I is TEXT: directly proportional to the square root of the concentration of I. Additions of II at first increase the rate of polymerization of both monomers. Then, a limiting concentration of II is reached, and further additions of II do not affect the rate of polymerization any longer. It was concluded that initiation did not proceed according to a redox mechanism. I'll probably does not react with I but with a certain intermediate, the con-

Card 1/2







s/081/61/000/022/019/076 B102/B108

AUTH()RS:

Yerofeyev, B. V., Ushakhina, N. A.

Inhibited self-oxidation of cyclohexanone

TITLE:

PERIODICAL:

Referativnyy zhurnal. Khimiya, no. 22, 1961, 146, abstract 22Zh33 (Sb. nauchn. rabot. In-t Fis.-organ. khimii AN BSSR,

no. 8, 1960, 161-167)

TEXT: It is shown that, owing to its effect on the initiation process, hydroquinone decelerates the oxidation of cyclohexanone (85-95°C) as initiated by cobalt acetate. Activation energy with respect to reaction rate is 21,600 cal, with respect to the induction period 23,900 cal, which values are almost equal. Consequently, the activation energy of the process coincides with the activation energy of the initiation period. [Abstracter's note: Complete translation.]

Cs.rd 1/1

8/170/60/003/012/014/015 BO19/B056

AUTHORS:

Verofevey, B. V. Academician of the AS BSSR, Troyer, V. N., Corresponding Member of the AS BBS, Franyuk, V. A.,

Candidate of Physical and Mathematical Sciences

TITLE:

Nikolay Sergeyevich Akulov (On the Occasion of His 60th

Birthday)

PERIODICAL:

Inzhenerno-fizicheskiy zhurnal, 1960, Vol. 3, No. 12,

PP. 119-122

TEXT: On September 12, 1960, Academician of the AS BSSR, Professor N. S. Akulov was 60. He looks back upon a 35 years activity as head of the Laboratory of Problems of Physics of the FTI AS BSSR. Akulov finished high school in 1919, 1920 he joined the Red Army, and, after having been demobilized in 1921, he began to study at the khimicheskiy fakulitet
Kubanskogo politekhnicheskogo institut (Chemical Department of the Kuban Polytechnic Institute). From 1922 onward he studied at the fizikomatematicheskiy fakulitet (Department of Physics and Mathematics) at Moscow. Under the guidance of Professor M. A. Ingaryshav he studied the

Card 1/2